



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Journal of Advances in Medical and Pharmaceutical Sciences</a>                                                           |
| Manuscript Number:       | <b>Ms_JAMPS_26751</b>                                                                                                                |
| Title of the Manuscript: | <b>Hydroalcoholic extract of Alstonia scholaris arrests ingress of Plasmodium falciparum by effective RBC membrane stabilization</b> |
| Type of the Article      | <b>Original Research Article</b>                                                                                                     |

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

|                                     | Reviewer's comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <b>Compulsory</b> REVISION comments | <p><b>Title: Hydroalcoholic extract of Alstonia scholaris arrests ingress of Plasmodium falciparum by effective RBC membrane stabilization</b></p> <p>No assay was conducted to ascertain the prevention of ingress of P falciparum. Do you think that maintaining this title may be misleading?</p> <p>Line 14: Please write in full letter "%".</p> <p>Line 29: Kindly not that <i>P. malariae</i> or <i>P. ovale</i> are deadlier. Therefore this sentence can be delete without causing any harm.</p> <p>Line 47: Replace "has" by "have" after Nadkarni <i>et al.</i> [7]</p> <p>Line 85: Add a full stop after " et al. [17]"</p> <p>Line 86: Write "were" instead of "was" - 50 ul!</p> <p>Line 97: Add a full stop: "... using the haemolysis assay by Jansen <i>et al.</i> [18]"</p> <p>Line 99: Space. Please also reconstruct this sentence: "1000µg/ml with serial dilution up to 7.18 µg/ml concentration".</p> <p>Lines 99, 101-102:<br/>"...agitation at room temperature for one hour with extract or pure compound solutions from 99 1000µg/ml with serial dilution up to 7.18 µg/ml concentration."<br/>"The crude extracts/pure compound were tested in triplicate at a final 102 concentration of 100 µg/ml."</p> <p>Please clarify these contradictory statements.</p> <p>Line 110-112: There is no need for to provide a subtitle for this. I suggest that you move this sentence to top, just before the text related to the assay.</p> <p>Line 115: Kindly provide the origin of the P falciparum strains used.</p> | <p>% inhibition assay was conducted to check the efficacy of the extracts.</p> <p>Corrected</p> <p>NIMR, New Delhi</p>                                                        |

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|                                  | <p>Line 124: Include the standard treatment use (positive control that serve as internal standard to validate the assy)”</p> <p>Lines 214-225: Please reconstruct this whole paragraph. Kindly establish clear connections between each statement made. Sentences like “Before checking antiplasmodial activity of the extract, the effect of extract on erythrocyte membrane was checked.” Should normally come at the beginning.”</p> <p>They should be seen as a whole not as juxtaposition of sentences. Why do you hypothesize that inhibition of lipid peroxidation could be responsible for the observed effect? Or Are you try to connect with you findings on inhibition of lipid peroxidation. Please clarify!</p> <p>Line 222: italic for “<i>Lantana camara</i>”</p> <p>Line 238: Define ROS. Reactive oxygen species.</p> <p>Lines 245-251: This looks like a conclusion. I kindly suggest that this whole paragraph should be deleted as the same statement is been made in the conclusion.</p> <p>In addition, I am afraid for this statement as well as that found in the conclusion (lines 253-261). If I consider what is found in the methodology. It is not clear if you tested the extracts and compound on both normal RBCs and Infected RBCs. As well as RBCs treatment prior infection with parasite. If not , why are you so conclusive about the ability the extract modifies the erythrocytes membrane and reinforces it such that the RBC become unsuitable as parasite host cells or the entry of the parasite into the erythrocyte is halted even in the absence of extract in the growth medium? Kindly address this issue.</p> | <p>Corrected</p> <p>Corrected</p> <p>The normal RBCs were treated with the extracts prior to the exposure with infected RBCs and the positive control RBCs were not treated and the % inhibition of entry of parasite control.</p> |
| <b>Minor</b> REVISION comments   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |
| <b>Optional/General</b> comments |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |